



BADGER STATE Smoke Signals



Serving Amateur Radio in Wisconsin

Published Monthly Since 1969

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The WNA Stalwarts



The above were present and accounted for at the Wisconsin Nets Association (WNA) Ltd. meeting, held during the WNA's annual picnic, held this year on September 12 at Shawano Lake. The dedicated crew in the front row, from left to right, are Rich, K9GDF (Wisconsin ARRL Section Manager); Gerry, K9EP; Lee, N9BDL; Ray, K9ANV; Larry, WB9ICH; Bruce, N9DGL; Dale, WB9NRK and Kelly; and Gene, K9UTQ. In the back row are John, KA9WWT; Jim, WB9YPY; Art, NC9G; Bob, N9GJI; Lisa, KA9RII; Les, W9YCV; Denny, K9LGU; Al, WA9BZW; and Ed, W9NGP. Stalwarts, indeed! More photos of the WNA gang are on page 5. Thanks to K9UTQ for the photo.

ARRL Executive Committee Meets

A review of the ARRL responses to FCC Docket 87-14 and PRB-3, a report on renovations to W1AW, the certification of candidates for Director and Vice Director -- all this and other matters were heard and discussed by the members of the ARRL Executive Committee which met September 5 in Montreal.

This probably marks the last time the ARRL Executive Committee or Board will meet in Canada, as the Canadian Radio Relay League becomes fully autonomous on January 1. The event was marked with appropriate ceremonies and remarks at a luncheon to which several CRRL representatives were invited. The interests of League members in Canada are in good hands, and will remain so in the new year.

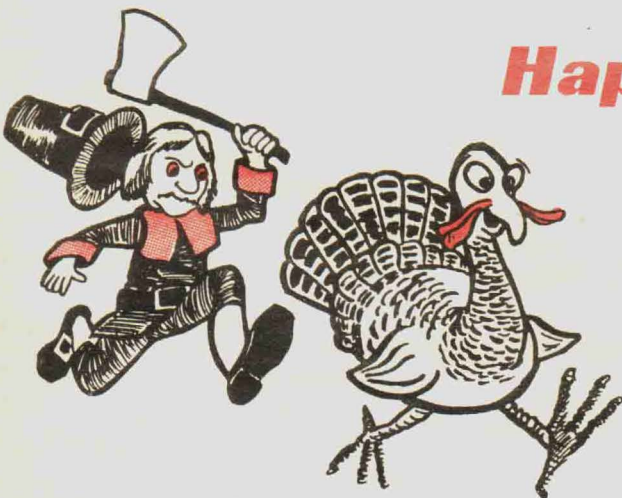
The Committee reviewed the ARRL response and the plans for future actions to 87-14, the FCC proposal to remove the bottom 2 MHz of the 220 band from the Amateur Service. It also reviewed the ARRL reply comments to PRB-3, the FCC public notice which inquires about the privatization of call signs. The Committee also reaffirmed the ARRL's interest in obtaining early access to the 18.068 - 18.168 MHz band, particularly since at least 60 other countries, including Canada, now permit amateur operation on this band.

(Please turn to page 7)

Happy Thanksgiving!

from

**Badger State
Smoke Signals**



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DISPLAY ADS OR INQUIRIES REGARDING DISPLAY ADS should be directed to Harry Westlund, address above.

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The opinions expressed in editorials, guest editorials, columns, articles, and letters are the opinions of the authors only, and do not, unless otherwise stated, express or imply agreement or endorsement by Badger State Smoke Signals, or any other organization.

Swapfests and other Social Events

October, 31, 1987. Hamfest Minnesota & Computer Expo, Hennepin Technical Centers/North Campus, 9000 Brooklyn Blvd., Brooklyn Park, MN (I-64 & County Rd. 18). Sponsored by Twin Cities FM Club. Tickets: \$3.50 in advance; \$4.50 at door. For info, write Box 726, St. Louis Park, MN 55426.

Sunday, November 1, 1987. Late Fall Hamfest at the Lake County Fairgrounds, Grayslake, IL. Contact CAP, 637 Emerald St., Mundelein, IL, 60060

November 7, 1987. AMSAT, 5th Annual General Meeting and Space Symposium, Southfield MI. Contact: AMSAT, P.O. Box 1091, Ann Arbor, MI 48109-1091

Saturday, November 14, 1987. The Milwaukee Repeater Club is proud to sponsor the 3rd annual "6.91 Friendly Fest" from 8AM to 1PM (sellers admitted at 7AM), at the newly-expanded Serb Hall, 51st & Oklahoma Ave. The selling halls will be located entirely on the ground floor with easy access so, rain or shine, gather up your swapfest bargains and come share our famous Milwaukee hospitality. Tickets are just \$3, four-foot tables for \$4. To save \$1 per ticket or table, send SASE with payment to The Milwaukee Repeater Club, P.O. Box 2123, Milwaukee, WI 53201, before November 7, 1987. Talk-in on 146.91 (The Friendly Repeater) and on 146.52. On-site Amateur Exams.

Sunday, November 15, 1987. 1987 Rockford Hamfest and Illinois ARRL Convention at Rockford, IL. Tickets \$3.00 advance or \$4.00 at the door. 8' table with 2 chairs, \$5.00. Outdoor space, \$2.00. For advance tickets send SASE to Rockford Hamfest, 6514 Swansdown Dr., Rockford, IL 61111. For Booth and Table reservations send SASE to Roger Sawvell, KD9MQ, 6514 Swansdown Dr. Rockford, IL 61111, or call: 815-282-1283

January 9, 1988. The original Midwinter Swapfest, sponsored by the West Allis RAC, will be held at the Waukesha Exposition Center, Hwys F & FT, Waukesha, WI. Contact WARAC Swapfest, P.O. Box 1072, Milwaukee, WI 53201.

As a service to our readers, this section of Badger State Smoke Signals is available without charge to list your upcoming Swapfest, Hamfest, dinner, picnic, party or other event of interest to Radio Amateurs in Wisconsin and nearby areas.

Send information on your event to Kenneth A. Ebner, K9EN, 822 Wauona Trail, Portage, WI 53901. In addition, space is available at attractive rates on our advertising pages, and/or we can include your flyers. For information on rates and requirements for our advertising pages, and/or for including flyers, please contact K9ZZ or K9EN.

Club Meetings

BADGER AMATEUR RADIO SOCIETY

(W9YT - UNIVERSITY OF WISCONSIN - MADISON)
Monthly while school in session - 2nd Wednesday - 7:30 p.m. - B-314, Electrical Engineering Building.

CENTRAL WISCONSIN RADIO AMATEURS, LTD.
(STEVENS POINT)

Second Wednesday.

EAU CLAIRE AMATEUR RADIO CLUB

2nd Tuesday - 7:30 p.m. - Parks and Recreation Bldg., Oxford and 1st Streets, Eau Claire. Hams, guests welcome. Travelers welcome on wide area club repeater K9UXP, 146.31/91.

FOUR LAKES AMATEUR RADIO CLUB (MADISON WI)

First and third Tuesdays - 7:30 p.m. - Red Cross Bldg., 4860 Sheboygan Ave.

FOX CITIES AMATEUR RADIO CLUB

Third Monday - 7:00 p.m. - Roosevelt Jr. High School, 318 E. Brewster St., Appleton. Info: (414) 735-6294.

GREEN BAY MIKE AND KEY CLUB

Second Thursday - Red Cross Bldg., corner Danz and Deckner, Green Bay.

GREEN FOX AMATEUR RADIO CLUB

Third Monday - 7:30 p.m. - Green Lake Town Hall, int. of county hwy. K and N.

KETTLE MORaine RADIO AMATEURS

Second Friday.

MANITOWOC COUNTY RADIO AMATEURS

First Wednesday - 7:00 p.m. - City Hall, 817 Franklin St., Manitowoc.

Second Wednesday - Red Cross Building, 1816 Washington St., Manitowoc.

MENOMONEE FALLS AMATEUR RADIO CLUB

Last Tuesday - Doors open 7:30 p.m., meeting begins 8:00 p.m. - Security Savings and Loan, Menomonee Falls. Amateurs and guests welcome.

MILWAUKEE RADIO AMATEURS CLUB

Second Thursday - Wauwatosa Savings and Loan, 7500 W. State St.

OZAUKEE RADIO CLUB

Second Wednesday - 7:30 p.m. - Saukville Community Center.

RIVERLAND AMATEUR RADIO CLUB

First Tuesday - 7:30 p.m. - Onalaska Community Center, Onalaska WI.

ROCK RIVER RADIO CLUB

First Tuesday - 8:00 p.m. - Dodge County Sheriff's Dep't, 141 N. Main, Juneau WI.

SHEBOYGAN COUNTY AMATEUR RADIO CLUB

Second Tuesday - 7:00 p.m. - Sheboygan Red Cross/Boy Scout Bldg., 2032 Erie Ave.

SOUTH MILWAUKEE AMATEUR RADIO CLUB

First Wednesday - Legion Post 434, Shepard Ave., Oak Creek WI. Auctions in March and October.

WEST ALLIS RADIO AMATEURS CLUB

Second Tuesday - 8:00 p.m. - St. Francis Savings, 9330 W. Greenfield Ave.

WISCONSIN VALLEY RADIO ASSOCIATION (WAUSAU)

First Tuesday - 7:30 p.m. - Location varies; info on 146.04/64, Wausau.

YELLOW THUNDER AMATEUR RADIO CLUB (BARABOO)

Days rotate: Wed., Nov. 11; Thu., Dec. 10. Monday meetings in room 20 of the Baraboo Civic Center; all others in room 25. Meetings start 7:30 p.m.

Let Badger State Smoke Signals know your club's meeting dates, and we will let our readers know of your meetings and activities. There may be Amateurs in your area interested in joining your club, or members of other interested in making an interclub visit.

Once upon a time there was a beautiful young woman who found a frog in a flooded field. The frog was so grateful he started talking. "I was once a rich politician. Kiss me and I'll turn back into one."

The woman immediately popped the frog into her purse and said "Why? A talking frog is worth a lot more than a politician."

The TEST POINT



The following are known locations where Amateur Radio license examinations are scheduled in the Badger State area.

November 7, 1987	Richfield, MN (Robbinsdale ARC)
November 14, 1987	Milwaukee, WI (MRAC)
November 21, 1987	Milwaukee, WI (BE)
December 5, 1987	Stevens Point, WI
December 5, 1987	Madison, WI
December 12, 1987	Appleton, WI
December 19, 1987	Milwaukee, WI (BE)
December 19, 1987	Rhineland, WI
December 19, 1987	St. Paul, MN
January 9, 1988	Waukesha (BE)
January 16, 1988	Eau Claire, WI
January 18, 1988	Madison, WI
February 20, 1988	Milwaukee, WI (BE)
February 27, 1988	Madison, WI
March 27, 1988	Jefferson, WI (BE)
April 9, 1988	Madison, WI
April 16, 1988	Milwaukee, WI (BE)
April 16, 1988	Eau Claire, WI
May 7, 1988	Cedarburg, WI (BE)
July 8, 1988	Eau Claire, WI
July 9, 1988	Eau Claire, WI
October 15, 1988	Eau Claire, WI
Monthly, First Sat.	Racine, WI
Monthly, Third Sat.	Loves Park, IL

GENERAL RULES FOR MOST EXAMINATIONS:

Most examinations require filing an FCC Form 610 and advance registration at least 30 days before the exam date. (Some VECs permit walk-ins. Check with sponsor to find out if they allow walk-ins.)

To register, you must first secure a copy of the current FCC Form 610 and fill it out completely (AND CORRECTLY). Get your form from an FCC Field Office, the ARRL or Badger State Smoke Signals. Send a 22¢ SASE if you request one from the ARRL or BSSS. In most cases, forms can also be obtained from the sponsoring group.

ARRL/VEC examinations require a check for \$4.35 payable to "ARRL/VEC".

The FCC now requires applicants to show their original Amateur license to the VEC. A copy of your license must be attached to your FCC form 610.

Technician class licensees must show proof of testing before March 21, 1987, in order to upgrade to General with a code test only.

Additional information is given below.

FOUR LAKES ARC (ARRL/VEC)

Madison, WI

December 5, 1987, January 17, 1988, February 27, 1988 and April 9, 1988

Fire Station #2, at 421 Grand Canyon Dr. They start at 8:30 a.m. sharp.

APPLETON, WI

Saturday, December 12, 1987, 9 a.m.

Roosevelt Junior High School, 318 E. Brewster Street, Appleton. Walk-ins welcome; walk-ins should arrive at 8:30 a.m. to complete Form 610 and register; 610 forms available at test site. You MUST bring photo ID, photocopy of your current license, AND your original Ham license. Talkin 145.15 or 147.76 repeaters. Exams spon-

sored by Fox Cities ARC. For more info: Larry Siebers, KD9IA, 7077 Weyers Rd., Freedom WI 54130 (414-788-3823).

MILWAUKEE METRO AREA TEST TEAM - MRAC/VEC (MRAC)

November 14, 1987 (6.91 Friendly Fest)

Bring your original license and 2 good photocopies, a pen, and \$4.35 for the exam fee. Walk-ins accommodated if time permits.

Register in advance on a Postal Service 14 cent postcard; print the grade of license you are applying for, your name, address, and telephone number. Send to: The Milwaukee Radio Amateurs' Club, Inc., N50 W16328 Pin Oak Court, Menomonee Falls WI 53051.

BADGER EXAMINERS (BE) - MILWAUKEE (DeVry VEC)

1987 dates:

November 21, December 19

1988 dates:

January 9 (at West Allis RAC Swapfest in Waukesha - 9:30 a.m.)

February 20

March 27 (at Jefferson Swapfest - 10:30 a.m.)

April 16

May 7 (at Ozaukee Club Swapfest in Cedarburg - 9:00 a.m.)

Unless otherwise noted, examinations are administered from 1 to 4 p.m. at St. Nicholas Parish, 5353 N. Green Bay Ave. (2 1/2 blocks south of Silver Spring), Milwaukee. Bring your original license, a good photocopy of it, and a second form of ID. Walk-ins are welcome. Technician license holders must bring proof of testing prior to March 21, 1987 to upgrade to General with code test only. Advance registration: send post card with your name, test or tests you wish to take, date you wish to be tested, your call sign, address and phone number to Badger Examiners, Mickey Dolgin, KB9G, 507 E. Spooner Rd., Fox Point WI 53217 (414) 351-5311.

RHINELANDER, WI - NICOLET COLLEGE

Science Center, Fireside Room - (DeVry VEC)

Contact: Len Bauman, K9RMN, 1312 Dorothy St., Rhineland, WI 54501, (715) 369-3296

STEVENS POINT, WI - BLUE TOP INN

Contact: Joe Larson, N9JW, 644 Portage St., Stevens Point, WI 54481, (715) 344-1182

EAU CLAIRE, WI - WSYI/VEC

9:00 A.M. to Noon, except July 8, 1988, 6:00 P.M. to 9:00 P.M. Exams are given at the University of Wisconsin Facilities Management Building in Eau Claire, except that the July exams are given in conjunction with the Eau Claire Amateur Radio Hamfest. There is no pre-registration requirement. Contact: Carl Searing, W9NW, 1129 McKinley Road, Eau Claire, WI 54703. (715) 843-1303.

RACINE, WISCONSIN - ARRL/VEC

First Saturday of each month except during summer and the Christmas holidays.

Exams are given at the Red Cross Building, 4521 Taylor Avenue, Racine WI 53405.

Bring your original license and a photocopy of it; also bring some form of photo identification, such as a Wisconsin photo driver's license, and a check for \$4.35 payable to ARRL/VEC.

Pre-registration at least 40 days before the test is desired, but walk-ins are permitted and

will be accommodated until the extra supply of exams is exhausted.

Send pre-registration to: William R. Firchol, Jr., N9DMP, 1912 27th Street, Kenosha WI 53140.

Third Saturday of every month.

Northern Illinois Volunteer Examiners (DeVry VEC). Held at North Suburban Library on North Second Street in Loves Park, IL.

Contact: Gene Melton, AK9N, 2901 Billie Rd., Rockford, IL 61109, (815) 874-6867

MINNESOTA TESTS

Gopher/Minneapolis ARC: Robbinsdale ARC:

Avery Finn, KØHLA Ron Schultz, NAØU

P.O. Box 53 6308 Peacedale Ave.

Hopkins, MN 55343 Edina, MN 55424

(612) 448-5384 (612) 920-7473

St. Paul ARC:

Jay Bellows, KØQBE

997 Portland Ave.

St. Paul, MN 55104

(612) 222-7253

LOCATIONS:

University of Minnesota Moos Hall, Washington and Union Streets, Minneapolis.

St. Luke's School, 1005 Summit Ave., St. Paul, Minnesota.

Richfield, Minnesota, Hamfest Minnesota and Computer Expo.

Waseca, Minnesota, Annual Hamfest at Senior High School.

(ed note.) Thanks to Marv Mahre, WØMGI for the Minnesota information. If you are interested in any of the Minnesota tests, we suggest that you save the above information as we may not be able to have the complete list in every issue of Smoke Signals.

This section of Badger State Smoke Signals is available to publicize your Volunteer Examiner Amateur Radio license examination schedules.

Please send us your schedules of dates, times, and locations that you will be conducting examinations and we will include the information here. Be sure to include contact address and any other necessary requirements. Information should be sent to K9EN or K9ZZ at the address shown on page 2.

Microwave Aircraft now reality!

WORLD'S FIRST MICROWAVE AIRCRAFT FLIES!

The AP reports from Canada that a model of the world's first microwave aircraft recently flew awkwardly into history, powered by radio energy beamed from a nearby microwave dish.

The airplane requires no fuel and in theory could stay in the air forever. The prototype, about one-eighth the size of the planned SHARP (Stationary High-Altitude Relay Platform) 5 craft, soared 100 yards above a muddy field before landing. Developers believe a full-sized microwave plane could become a "flying satellite," transmitting radio and television signals for a longer distance and at a lower cost than a transmission tower.

The next step is a quarter to half-sized prototype model. The full-size plane would have a wingspan of about 35 yards and would need a network of microwave dishes to keep it airborne.

Remember....you heard it first here on W9LZQ-1 BBS

Yellow Thunder

Amateur

Radio

Club

K9ODK
WB9FDZ

The next meeting of the Yellow Thunder Amateur Radio Club, Inc. will be held November 11, 1987, in room 25 of the Baraboo Civic Center. Non members and guests are welcome to attend.

The October 13, 1987 meeting of the Yellow Thunder Amateur Radio Club was called to order by the president at 7:43 p.m.

ATTENDANCE

Harry Westlund	K9EHJ	Baraboo
Steve R. Schwoegler	WB9RNL	Wisconsin Dells
Duane Grotophorst	KA9HKL	Sauk City
Jim Decker	WB9UQT	Baraboo
Jim Romelfanger	K9ZZ	Baraboo
Harry Mayland	K9FFT	Baraboo
Ken Johnson	K9DZG	Mazomanie
William Klinkner		Sauk City
Anne Klinkner		Sauk City

The minutes of the previous meeting were accepted as published in the B.S.S.S.

There were no money transactions so the treasurer's report was the same as previously stated.

The secretary then read a letter of resignation from member Ruth Familetti. Home and work obligations prevent her participation at this time.

OLD BUSINESS

The secretary finally made personal contact with Mr. Tim Stieve. This meeting resulted in Mr. Stieve accepting the club's invitation to attend our next meeting on Nov. 11, 1987. The invitation was accepted and Mr. Stieve will attempt to bring with him his Captain, who is co-worker on this project. There was also further discussion on the possibility of the club securing and operating a local repeater on 220 MHz.

The president then brought up the subject of Novice classes. A few ideas were exchanged. While no definite date was set for classes to begin, it was the general consensus that classes should start in late January. The idea of holding classes two nights a week for a shorter time versus classes one evening per week with longer periods was put before the membership for consideration.

The president then suggested that the meeting be closed soon so we could view the A.R.R.L. slide program on Oscar 6 and Oscar 7.

Jim Romelfanger acquired a copy of the A.R.R.L. video "The New World of Amateur Radio." This will be our program at the February meeting.

Buck Nite drawing was won by K9ELK, who was not present. Next drawing will be for \$8.00.

The president then adjourned the meeting at 8:30 p.m.

Respectfully Submitted:

Harry Westlund, K9EHJ, Secretary

Birthdays

Orv Warning	W9OXN	November	14
Gary Pratt	WB9ECO	November	17
James Taylor	WA9GJV	November	21

Sentence Sermon

Brighten the corner where you are, but don't forget, there are other corners that need brightening.

MISCELLANEOUS MISCELLANEOUS MISCELLANEOUS
Oh what the heck -- items of interest:

Four Lakes Amateur Radio Club THE FEEDLINE

On September 15th, FLARC received an honor we can all be proud of! Richard Regent, K9GDF, ARRL Section Manager, presented our club with a beautiful plaque honoring FLARC's 50th anniversary of our charter and ARRL affiliation.

Our thanks to the above mentioned clubs and their bulletins for the information presented. Badger State Smoke Signals will be pleased to exchange bulletins and information with your club. Please contact K9ZZ or K9EN.

SWL net on 2m

An SWL net is being started by Dave Rude (KA9SRU) and myself. The net will be on the 1st and 3rd Sundays of each month, from 9:00 p.m. to 10:00 p.m. on the Baraboo repeater, 146.880. The purpose of the net is to foster more timely exchange of information regarding all aspects of radio communications. The topics for discussion will range from VLF to SHF, BCLing, TV DXing, FAX, RTTY, antennas, equipment reviews, frequency lists, anything that has to do with this hobby. The first net will be on Sunday Oct. 4.

73 Terry, KA9WBX

FREE WANT ADS in BADGER STATE SMOKE SIGNALS

Yes, they are FREE. BSSS will run your WANT AD listing Amateur Radio related equipment you wish to buy, sell, or trade. Non-commercial listings only. Length and number of free ads may be subject to space limitations. We reserve the right to refuse any listing that we feel is inappropriate. Send to Kenneth A. Ebner, K9EN, 822 Wauona Trail, Portage, WI 53901.

FOR SALE: Spectrum communications SCR 1000, 25 watt repeater with Sinclair Q202G Duplexer, operational on 145.37 MHz. \$600.00. Unused jacketed Andrews hardline with new UHF connectors. Each length approximately 120 feet long. 1/2 inch - \$50.00. 7/8 inch - \$75.00. Richard Drew, K9PJB, (715)-423-1987

AN OLDIE FROM 1925

(From the Canadian Amateur via ARNS)

Return signals are only possible with a return circuit through the earth, according to Michael Pukin. "Every now and then we are told that wireless signals may someday be sent to Mars. The suggestions are unscientific for the simple reason that we cannot get a ground to Mars, and, therefore cannot take it into close partnership with our Hertzian oscillations. Without that partnership, there is no possibility of covering long distances." --Radio Doings, July 19, 1925. (tnx UPDATE)

Special Holiday Subscription Rates

Save by subscribing now to Badger State Smoke Signals! From now until December 1, 1987, you can subscribe to BSSS for even less than our usual low rates. And, at these rates, it's a perfect time to buy gift subscriptions for your Amateur Radio friends or for someone who is interested in Ham Radio. It's also a great time to renew your own subscription at these special rates.

REGULAR RATES SPECIAL RATES

1 Year:	\$7.50	\$6.50
2 Years:	\$14.00	\$13.00
3 Years:	\$20.00	\$18.50

A little money goes a long way at these prices! To receive these rates, however, subscriptions MUST be received on or before December 1, 1987. The special rate cannot be honored after December 1, 1987. Use a separate sheet of paper, if necessary. Send this form, with check or money order (do not send cash) to Jim Decker, WB9UQT, BSSS Treasurer, P.O. Box 337, Baraboo WI 53913-0337.

FOR YOURSELF

(Please circle as applicable)

New Renewal 1 Year 2 Years 3 Years

Name: _____

Call Sign (if any): _____

Address: _____

City: _____

State: _____ ZIP: _____

FOR YOUR FRIENDS

New Renewal 1 Year 2 Years 3 Years

Name: _____

Call Sign (if any): _____

Address: _____

City: _____

State: _____ ZIP: _____

New Renewal 1 Year 2 Years 3 Years

Name: _____

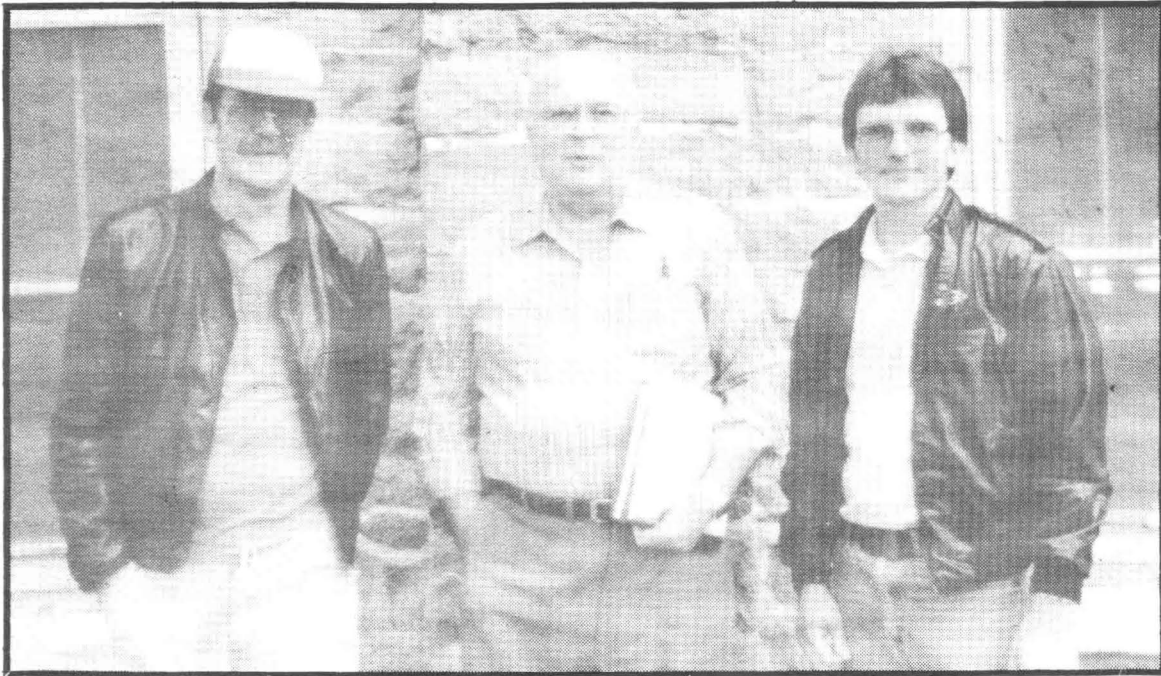
Call Sign (if any): _____

Address: _____

City: _____

State: _____ ZIP: _____

Presenting the WNA Officers..



Serving as officers of the Wisconsin Nets Association (WNA) are, left to right, Art Dunham, NC9G, Treasurer; Bob Dunn, N9GJI, Chairman, and Bruce Cadwell, N9DGL, Secretary.

..and Net Managers



Here are net managers, L to R: Lee Andreas, N9BDL, Wisconsin Slow Speed Net (WSSN); Lisa Harper, KA9RII, Badger Emergency Net (BEN); Bruce Cadwell, N9DGL, Wisconsin Novice Net (WNN); Larry Guthu, WB9ICH, Wisconsin Intrastate Net - Early (WIN/E), and Dale Johnson, WB9NRK, Green Bay Area Two Meter Net, with his daughter, Kelly. Photos taken at WNA Picnic on Sept. 12 by Gene Santoski, K9UTQ.

COLOR-CODED HAM BANDS (GEARVAKf Bulletin, Spring 1987)

Color-coded ham bands and licenses are just around the corner! According to FCC spokesman Ralph R. Spiffie, the FCC will soon issue another "unilateral regulatory decision concerning the orderly delineation of the various amateur radio sub-bands." Noting that "many amateurs have shown callous disregard for the spirit of callsign grouping according to license classes," Spiffie clearly explained, "the FCC will color amateur band segments according

to the class of licenses held by amateurs authorized to use them." The colors selected are gold for Extra Class bands, blue for Advanced, red for General, yellow for Technician, and green for the Novice Class. "To further assure compliance with amateur band color assignments," said Spiffie, "all new licenses issued by the FCC will bear the color assigned to the band the privileges of which are authorized the licensee." The substance of Mr. Spiffie's statement will appear in English translation at the end of April, according to uninformed sources. - KA8AOH

EDITORIAL

BY *Jim Romelfanger* K9ZZ

Badger State Smoke Signals serves Amateur Radio in Wisconsin and the surrounding area. It is primarily dependent on submitted material for news and pictures, and, so far at least, we're doing fairly well with voluntary offerings for publication. Of course, some months are better than others.

One area, however, does not bring forth information as well as it should. That area is "The Test Point." That column lists upcoming volunteer exam sessions in Wisconsin and surrounding area. It is with disturbing frequency that we hear of sessions which we were not able to list in The Test Point because no information was received for us to publish. Sometimes, I see these sessions listed in some of the club papers I receive in exchange for BSSS, and it is too late for us to publish the dates. I sometimes hear about them on a repeater; again, the dates are usually too near at hand to publish. (We do not take information verbally anyway; there is too much chance for error.)

I received a letter from William Firchow, Jr., N9DMP, in Kenosha, regarding our Test Point listing of his group's examination sessions in Racine. He says, in part: "You will be pleased to know that as a result of your paper we have had several phone calls regarding the tests and several Amateurs have traveled from some of the northern Wisconsin cities to take their tests at our location.we thought that you would like to hear that your schedule is working."

Clearly, listing test sessions in The Test Point is an effective way to spread the word about exam sessions. It would seem logical that if a team puts forth the effort to conduct examinations, the minute bit of extra effort required to send the exam schedule to BSSS would make sense.

In a related situation, one of the major Wisconsin swapfests sent notices about the upcoming event to the major publications, but we received nothing. It would seem to make sense that the newspaper serving the area from which the bulk of the prospective attendees would come would be notified! It is far more likely that an Amateur reading about the swapfest in his home in Oshkosh would attend the event than someone reading about it in his home in Portland, Oregon (or Maine).

It all boils down to the fact we are serving the hobby by publishing this paper. We can't know about an event or examination session or whatever unless someone tells us; we depend on our readers' help. The addresses are on page 2 of each issue. Swapfest and Test Point items go to K9EN. Other information goes to my address.

There have been some noteworthy contributors of stories and photos this past year or so. Among those are Mike Schoenfuss, N9GHZ; Carl Plotz, WB9JSW; Gene Santoski, K9UTQ; Les Peterson, W9YCV; Richard Regent, K9GDF; Bob Baird, W9NN, and others. Joe Ash, W9ODV, is a cartoonist extraordinaire; see his latest on page 11. To these and the others who take part in our efforts with BSSS, we say THANKS! To the rest, please join them, and help make BSSS even better!



The October meeting of the Riverland Amateur Radio Club was called to order by President Gary Webb, N19V, at 7:35 p.m.

A motion for acceptance of the minutes as published in BSSS was made and seconded.

The Treasurer's report was given by Sec.-Treas. Dick, KØJYB, as \$3.86 in the checking account and \$289.58 in the savings account. There were several large expenditures such as paying the tower climber, BSSS fee, and payment of an insurance policy.

It is my opinion as Sec.-Treas. of the club that the dues should be raised next year to cover the cost of the BSSS.

37/97 REPORT

Craig, N9ETD, reported that he forgot to bring the old cable connectors to show us the damage which had been done by water and weathering, otherwise the repeater has been functioning well.

SWAP FEST

Craig, N9ETD, reported a profit of \$80.00 and gave thanks to Bill, WB9VYI, for a good job on the concession dept. Tim, NS9E, voiced his approval on the suc-

cess of the Swap Fest. Duane, W9HWQ, made a motion that the \$80.00 profit be placed in the general fund. The motion was seconded by Wid, W9DM. Carried.

JACKETS

Craig, N9ETD, announced a slight increase in the cost of the club jackets. He is in the process of having a new logo made, etc.

CHRISTMAS PARTY

Bill, WB9VYI, volunteered to be in charge of the annual Christmas Party to be held in late January.

GUESTS

Mark Webster, WA1STJ, introduced himself as a new resident in the area, as did another person, but he failed to place his name on the sign up sheet. (See Ron Church on list, KBØAIY.)

ANNOUNCEMENT

Pres. Gary, N19V, invited us to attend a Bio Medical Ass'n display at the La Crosse Center on Oct. 15, 1987, from 3 to 6 p.m.

PACKET CONFERENCE

Duane, W9HWQ, reminded us of the area Packet conference to be held at Nob Hill Restaurant Sat. Oct. 17, starting at 10 a.m.

TRAFFIC NETS

Wid, W9DM, told us of the large amount of traffic resulting from the Cal.

earthquake. Priority traffic scores 5 pts., compared to the usual 1 pt.

The meeting was adjourned at 8:03 p.m.

PROGRAM

Thanks to Tim, NS9E, for showing the ARRL video film, "The New World of Amateur Radio."

Submitted by Dick, KØJYB

MEMBERS AND GUESTS PRESENT

Bill Wood	WB9VYI
Duane Fruechte	W9HWQ
Hugh Barker	KAØEJZ
Ron Church	KBØAIY (Guest)
Ray Buhr	AA9M
Bill Pike	K9FYZ
Mike Tessmer	NØBSH
Karl Olberg	W4ST
Gary Countryman	KD9RL
Walter Altus	WD9GCR
Jim Brooker	N9DBK
Gary Webb	N19V
L. F. Bentzen	K9EGO
Craig Goldbeck	N9ETD
Dallas Miller	K9LEC
Ron Reed	KD9OY
Tim Stoffel	NS9E
Jim Molledahl	W9BI
Jack Yoshizumi	W9KTD
Wid Johnson	W9DM
Maty Johnson	XYL - W9DM
John Young	W9KAZ
Mark Webster	WA1STJ (Guest)
George Kroner	KA9HOP
Art Osborn	WØJDC
Dick Low	KØJYB

CORRECTION

In the story in last month's BSSS regarding the death of Sid Pokorny, W5UAU, we failed to mention that Sid was instrumental in the formation of the Wisconsin Nets Association Ltd.

— VOYAGER PILOTS/HAMS APPEAR AT EAA 1987 —



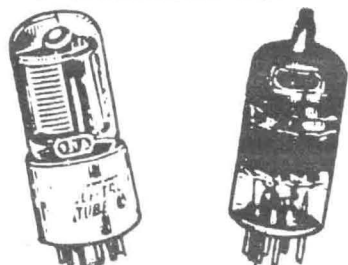
The pilots of the Voyager aircraft, which was flown around the world non-stop, were at the Experimental Aircraft Association Convention and Fly-in in Oshkosh in August 1987. At left is Burt Rutan, designer of the craft. In the center is Dick Rutan, KB6LQS, and at right is Jeanna Yeager, KB6LQR.

Photo by Carl Plotz, WB9JSW

WALTER HARIU, W9HSL: SILENT KEY

Walter Hariu, W9HSL, age 73, of Madison, died October 9, 1987 after a lengthy illness. He was a broadcast engineer for nearly 50 years, and helped establish WISC-TV, Channel 3, in Madison in 1956, and served Channel 3 as Chief Engineer for more than 25 years. He was a member of the Broadcast Pioneers, the Society of Broadcast Engineers, and the Society of Motion Picture and Television Engineers.

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ARRL EXECUTIVE COMMITTEE MEETS

(Continued from front page)

A number of Committee reports were received, including one pertaining to renovations to the Hiram Percy Maxim Memorial station, W1AW. A structural engineer reports the building is basically sound, even after 50 years of New England winters; a further study will be made to see if the cellar floor can be lowered or the building raised to make the basement area more fully usable.

The Executive Committee had been asked by the Board of Directors to "research, document and report the ramifications of the formation of an Amateur Radio Political Action Committee." The initial phase of the study developed three central questions: Is it a good idea for ARRL? What will it accomplish beyond present efforts? Is it legal? To the last of the three, the answer is in hand already. A non-for-profit, educational and scientific association recognized under the IRS Rule 501(c)(3), such as the ARRL, is prohibited by IRS rules from having a Political Action Committee (PAC) or working for or against the election of public officials.

While the study will continue, it will be broadened beyond PACs into an examination of overall effective lobbying measures.

Complete minutes of the Executive Committee meeting will appear in November QST.

(From The ARRL Letter, published by the American Radio Relay League)

CONGRATULATIONS!

Ed Rice, W9NGP, Oconomowoc, recently had an article about troubleshooting published by 73 Magazine. He had many articles published in the past as well. He also is the new Net Manager of the Wisconsin Intrastate Net - Late (WIN/L), which meets on 3662 KHz at 10 p.m. local time. Congrats, Ed!

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Hams Galore at this Wedding!



When Steve Polishinski, WB9YSD, and Barb Zimdars were married in Madison on July 18, 1987, nine Radio Amateurs were present at the reception. (In an item carried a few months ago, we told you that seven Hams were there; not true.. there were 9.) In this photo taken at the reception are, left to right: Gary Muskat, N9DRA, Middleton; Clyde Coffee, W9HSY, Madison (Clyde provided the entertainment); Steve Polishinski, WB9YSD; Barb Zimdars (not an Amateur Radio operator - not yet, anyway); Mavis (N9FWG) and Carl Plotz (WB9JSW), Oshkosh (Carl was instrumental in getting Steve interested in Amateur Radio); Chris Zenchenko, WB9RSQ, Madison; and Theresa Uicker, N9DIA. Let's see, now.. that's only eight.. Who was the 9th Ham there? Here's a clue:

Photo by K9ZZ.

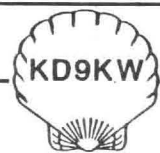
DID YOU KNOW?

The Pony Express lasted 16 months, had 80 riders, 420 horses and covered 2000 miles? It had 190 changing stations, spaced 10 to 15 miles, and average speed of riders was 10 MPH in summer and 8 MPH in winter.

- K9UTQ

ANSWERS TO OCTOBER TRIVIA QUIZ

1. Apogee
2. Low Power
3. Radio Society of Great Britain
4. November
5. GDO or Noise Bridge
6. HZ
7. G = I/R
8. False (28.3 to 28.5)
9. 3985 KHz
10. EN54



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Don't Chicken Out: Ham Up Your First Talk!

By Richard R. Regent, K9GDF
5003 South 26th Street
Milwaukee WI 53221

The mind is a wonderful thing. It starts working the minute we're born and never stops until we get up to speak in public.

Public speaking is simply using your voice to get ideas across to a group of people. Why then can speaking before a bunch of radio club members sometimes be a formidable task? The answer - many people become terrified and numb with nervousness, stage fright or fear. They worry about being shy, self-conscious, embarrassed or inadequately prepared. Others concern themselves over thoughts of being criticized for making mistakes, having a sudden memory loss, or just plain making a fool of themselves. It's no wonder that they skip opportunities to speak and instead blend quietly into the audience. Unfortunately, this not only restricts their chances to practice their speaking skills, but also quenches productive exchange of ideas.

Fluent pros, however, speak well because they frequently prepare speeches and practice public speaking which, in turn, helps them to be better communicators.

Mini-speaking situations occur in Amateur Radio without advance notice - when you make an announcement to a small group on-the-air or explain hamming to your relatives. And the odds are good that someone will ask you a question during a club meeting, especially if you're an official or are known to have special knowledge. Besides clubs, be alert for committees, government and citizen groups, nets, conventions, fairs, swapfests and hamfests, places where you could be asked a question about Amateur Radio. Yet, you can partially prepare, even for those spur-of-the-moment mini-talks.

AVOIDING PANIC

Tell those nervous butterflies in your stomach to fly in formation. Here's a way to practice informal speaking in front of your club. First, plan ahead. Find out what's in the latest ham news or on the club activities schedule. Guess what the group might discuss during the next meeting and jot down several potential questions that you might feel comfortable talking about. Next, prepare a short answer for each. One probing question asked during the meeting might match one of your prepared answers. Then, all you have to do is stand up, relax and ad-lib with confidence from your notes, just as you planned. Audiences will be hoping you can give them the information they need. Think positive, they're on your side.

Whether a speech is given extemporaneously, impromptu, from memory or a manuscript, a little preparation and knowing how to get ideas across can dispel disparate feelings, soothe jitters, calm fears, and make the difference. Here are two important rules of effective public speaking:

- (1) Be prepared - spend much more time preparing a speech than it takes to give it.
- (2) Relax and be yourself - think positive, concentrate on the subject and less on yourself.

PREPARE THE TALK

After you feel comfortable answering questions or giving short talks, you're ready for a longer club talk or program. A reassuring way to make your first talk energetic and successful is to select a subject you like and one in which you have considerable experience; if the audience asks questions, you'll probably know all the answers. But even developing a subject you're familiar with might still require time to research, locate and gather examples and supporting material, particularly if the topic is of a changing nature

or is fairly technical. Think, read, converse, interview, observe or reflect; soon you'll have the subject under control. To keep it under control, organize your talk to include an introduction, discussion, and conclusion.

(1) The INTRODUCTION should have an attention-getter and a preview of the subject. Try to start your talk without referring to your notes. Hold up an appropriate object for everyone to see immediately at the beginning of your talk, use visual aids whenever you can, line up other items in the order of your talk to maintain smooth continuity. Tell a joke which leads into your speech (or provides a good closing) if you have the knack and the subject allows humor.

(2) The DISCUSSION usually sticks to an outline of no more than three main points, arranged logically and supported by facts, illustrations, ideas and maybe even testimony. Still, use a variety of techniques - comparison, cause-and-effect or enumeration. Include the unexpected, such as a large or intense example, or relate the subject to a current event in your community to hold listeners' attention.

(3) The CONCLUSION should contain a review of the subject and a concise memorable statement.



Information containing activity, curiosity or suspense helps keep listeners awake. Interesting speeches stimulate emotions and create images or thoughts. The content of an interesting speech typically has one or more of these factors:

- (1) Relates to the audience's needs or concerns.
- (2) Solves problems for the audience.
- (3) Is new, timely or controversial.

PRACTICE

Practice your entire talk mentally three to six times with the aid of your actual notes and visual aids; remember key ideas, not specific words. Time your speech; if it's too long, condense the material instead of speeding up your delivery.

QUALITY, NOT QUANTITY

A big audience can provide an excellent chance for you to reach more listeners who may become enthusiastic about what you have to say. But don't expect a large turnout to indicate widespread

interest: some individuals are just curious and may have no intent to participate. If you pack plenty of interest into your prepared talk, you'll do fine. Don't get discouraged by a small audience; it may only reveal that the meeting was not promoted enough.

A few inconsiderate people could be hecklers. But use tact; speak when you're angry and you'll make the best speech you'll forever regret. In other words, be in a good mood to make a presentation that will be remembered for its meaning, not its anger.

GIVE THE TALK

When giving the talk, concentrate on WHAT you're going to say - the ideas and message you have carefully prepared to get across to the listeners. Don't worry about HOW you will give the talk. Details, methods or tricks, such as using exactly the right words, perfect sentence structure or special emphasis, although usually perceived as important by beginners, will be learned later as you gain more experience. Act normal; use body english, the speech mechanics that gives your talk the right expressive gestures on cue. Don't apologize for your talk.

(Continued on page 9)

Lineah Amplifiers

By Wid Johnson, W9DM
Dakota MN 55925

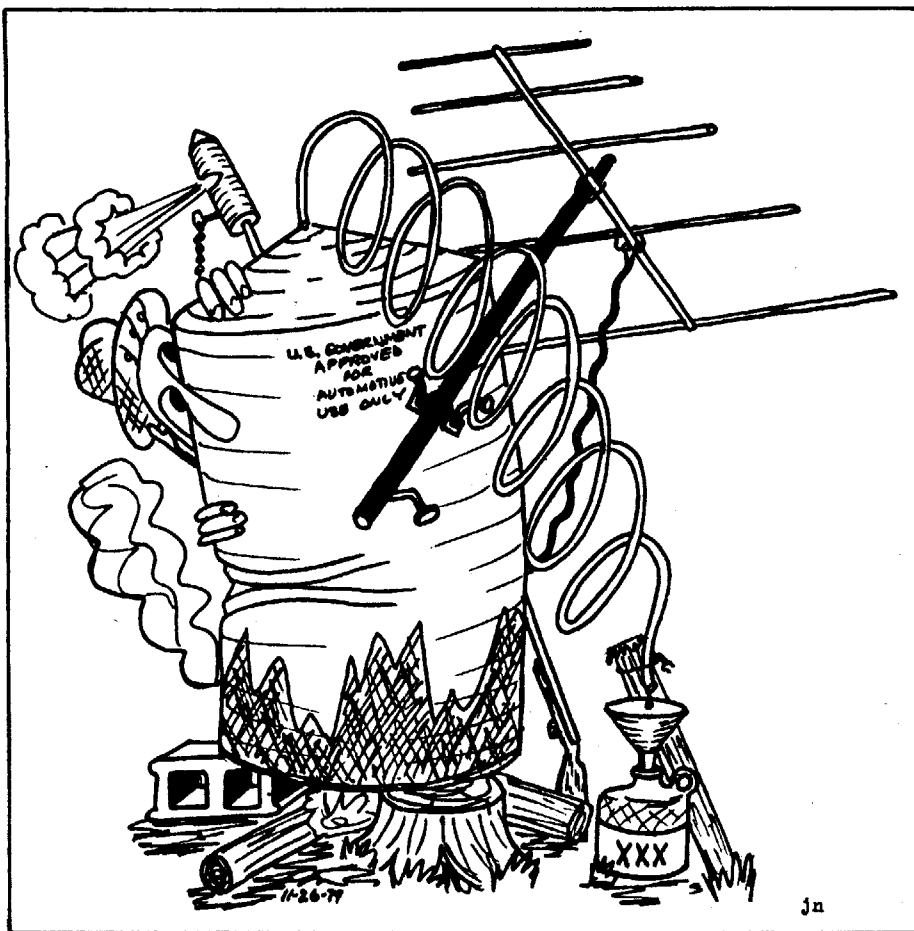
Lineah Amplifiers? The mention o sitch gadgets itches mah thinkin cap an brews up a right fine recalection o me granpappy. Yas'a jess like lookin at one o them fangled moom pichers ah kin right now see mah granpappy wif his jug in hand, 'n proud as a peacock, leadin us to his shack to see his pahtly sto boughten amp.

Ya all notice ah's gittin a lil edgicated an called it an Amp 'nstead o an amplifier. Gess ahm jess gittin with the times.

Ole granpappy was always tryin to git the mose fer the littlist an when he heard bout puttin a dingy hoo on his present set up to git more output he got right to work.

Nevah let it be said that granpappy was behind the doah when the hoss got out.. er.. ah sumpin like that.

Well.. fer the next couple o weeks, Skunk River Holler was a buzzin lak a bees nest wif a bahr in it. There was copper tubin, wire an all sorts o junk all ovah the place. Ah saw granpappy makin a cawl by windin the copper tube roun the toung o the plow.



One day granpappy went to town foah sum pahts an whilst thar he met up wif a ham feller who granpappy said new all about amplifiers. He tole granpappy he should build hissself a chimley, that a chimley would direct the heat to whar yo want it. Granpappy said that fer a pig man he sho knew wat he was talkin about.

Wal now I know you all uses copper tubin fer cawls, 'n wire foah connectin pahts t'gither an chimleys to direct the heat from the toobs but ah'm a thinkin that granpappy done got confoosed someplace. Why?

Cause he come a runnin into the house like he was bein chased by the Sheriff an a hollerin "It works, an the output is doubled." After we got him calmed down, he said, "Here taste it 'n see fer yer sef, it's the best yet an double the output." Taste it? Best yet?? Double the output? Granpappy! Show us this Amp o youres.

Now granpappys shack was jess out back a piece but the excitement o beholdin granpappys creation made it seem all of

(Please turn to page 10)

HAM UP YOUR FIRST TALK!

(Continued from page 8)

There's an old saying, "The trouble with many speakers is you can't hear what they're saying, the trouble with others is that you can." Even though you're probably accustomed to talking into a microphone, a club meeting situation might require you to make some distance or gain adjustments to prevent feedback, yet insure you're being heard. Besides using the correct voice volume and matching the level of language to the group, it's also a good idea to start speaking slowly to let the audience get accustomed to your voice, then, after a few sentences, pick up speed.

BE CONCISE

Make your speech like the latest Paris fashion, long enough to cover the subject, yet short enough to be of interest. Don't be like those long-winded orators who "have a few words to say," but seldom stop when they have said them. Limit your material to the allotted time and know when to finish. Slow down a bit at the very end of your talk, give the conclusion, and then stop. Listeners now may be raising their hands to ask questions. Respond to each person who asks a question. When you're through answering all of them, be sure to say "Thank you!"

Strive to improve your speaking. Ask an expert to critique your speeches, join the Toastmasters in your area, examine a video tape of yourself or read a few books on "How to Speak." Finally, as it is with many learned abilities, the skill of public speaking requires practice.

After you've finished with your first talk, get ready to enjoy the applause from your group; this time it will be for you.

REFERENCE: Fletcher, Leon: How to Speak Like a Pro, Ballantine Books, New York, 1983

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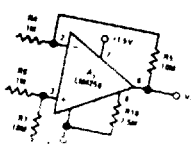


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John's Junk Box



By John W. Frank, WB9TQG
P.O. Box 5113
Madison WI 53705

AN RF SIGNAL SAMPLING GADGET

Here's a very simple gadget for anyone who wants to couple their frequency counter to the output of a transmitter or signal generator. I really can't claim credit for this circuit; it came with instructions for a frequency counter I once owned, and also has appeared in several electronics magazines.

When building this circuit, use good RF construction techniques. Keep all wires as

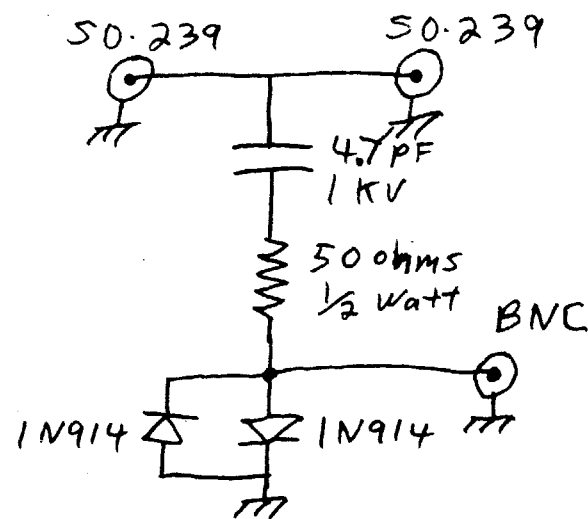
short as possible, and use a metal chassis box with tight overlapping seams. I built this gadget in the smallest metal box I could find. An SO-239 is on each end of the box, with a straight piece of heavy (#12 solid) wire between them. The BNC connector is on the side of the box. As is the case with all my junkbox projects, I used the connectors I had on hand. If you would rather build your signal sampler with "N" connectors, go ahead; it should still work just fine.

The operation of this circuit is also quite simple. The RF source is connected to one SO-239, the load is connected to the other SO-239. The frequency counter is connected to the BNC jack through a short coaxial patch cord. Although purists would point out that the signal level at the BNC jack will vary with frequency because the reactance of the 4.7 picofarad capacitor varies with frequency, I have successfully used this signal sampler on all the Ham bands from 160 through 2 meters and on 440 MHz.

73 and Happy Sampling,

John, WB9TQG

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ARRL ASKS VE RULE AMENDMENT

The ARRL has petitioned the FCC to forbid Volunteer Examiners (VEs) whose accreditation has been suspended or revoked by a VEC from becoming a VE under a different VEC. The petition states that in a few instances, some VECs have noted irregularities in certain examination sessions, and it became necessary for the VECs to discontinue the accreditation of the VEs involved. However, there is no provision in the current rules to prevent these discredited VEs from applying for accreditation with another VEC, never mentioning the previous discreditation. Quite obviously, this undercuts the overall integrity of the VEC program.

The ARRL petition explains that a VEC is not always in a position to determine the honesty of the VEs it accredits. Furthermore, there is no real exchange of information among

VECs concerning discreditation actions, since there may be some legal liability if the VEC characterizes the discredited VE's actions in some way.

In our comments, we state it should be up to the FCC to determine whether, in its opinion, a discredited VE should be readmitted in the program. Our comments state: "The enactment of a rule which requires that a volunteer who has been discredited obtain FCC approval prior to applying for accreditation again would place the burden on the volunteer to seek such approval. It would at the same time obviate the need for individual VECs to exchange information about discreditation actions.... Most importantly, it would result in a greater degree of integrity in the volunteer examination process." The FCC has not yet assigned an RM number to the petition. (From The ARRL Letter)

LINEAH AMPLIFIERS

(Continued from page 9)

a mile away.

At last here we is an thar it.. i.. is. Wal ahl be a frogs uncle ah sees it.. but ah done wanna believe it. Now ah knows fo sure granpappy got confoosed. He didna build a Amplifier.. he done built a still wif a beautiful copper cawl an a rite purty stone chimley.

Granmammy looked the whole sitiashun ovah an grumbled.. "Now that ya all got yosef a nice new chimley, ah spouse yo all gonna be spectin Santy Claws to come down it wif a real amplifier."

You all ask me what I think of granpappys creation? Hmmm.... ah's risgusted.

("Lineah Amplifiers" was originally written for and published in the Wisconsin Nets Association Ltd. Bulletin, December 1979.)

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Eau Claire Amateur Radio Club

NEXT MEETING

The next meeting of the Eau Claire Amateur Radio Club will be on Tuesday, November 10 at 7:30 p.m. at the Parks and Rec. Building. Lunch committee: Jim KE9BC, Mike WD9DLM, and Corrine KD9KL.

OCTOBER MEETING SUMMARY

The meeting was called to order at 7:35 p.m. with Vice President McCalister WD9DLM presiding. The minutes were approved as read from the BSSS. The treasurer's report was approved as read.

OLD BUSINESS

Andy KA9HWN reported for the trailer committee. A 16' X 7'8" Trailblazer trailer has been found. It comes with 2 gas tanks, heater, stove, refrigerator and bathroom fixtures. Cost, including tax, is \$525. The treasurer has written a check in this amount and the trailer will be purchased and parked at FLK's QTH. The present trailer committee will recommend modifications needed and a committee to undertake these modifications will then be chosen. Preliminary impressions of the suggest that radical gutting of the trailer will not be necessary and that there is room for both the "extras" (stove, fridge, etc.) and the required number of operating positions - tentatively set at four. Modifications will probably be held off until Spring. Carl W9NW reported that KD9OB's inquiries regarding title, insurance, etc. suggest that it is best to keep the weight under 3000 pounds and that the trailer be technically "uninhabitable." Removal of the bunks should render it uninhabitable. It may be necessary to license it to an individual member rather than the club. While the trailer is in tow the insurance of the car's owner should cover the trailer as well.

W9NW again filled in for the Public Service Chairman. There was nothing to report except the occurrence of some

events we were not asked to cover. A suggestion that the club pursue a more aggressive approach in offering to assist at such events elicited no further discussion.

WD9DLM reported that Bill W9EG taped the satellite presentation of the ARRL's promo "The New World of Amateur Radio." The membership expressed its thanks to Bill and also passed the following motion: "Resolved: that W9EG be reimbursed for the cost of the video tape on which he recorded 'The New World of Amateur Radio' for the club."

Don K9UXP reported on the status of the 31/91 repeater. The repeater is currently operating on an alternate antenna at a height of approximately 500 feet due to a rupture in the coax during a recent windstorm. The mishap resulted in approximately \$160 in damage to the roof of one of WEAU's buildings. If we are to repair the existing coax we must wait until a tower crew is working on the tower. We might also consider replacing the feed line with hardline at considerable expense - again a tower crew would be needed. With the increasing expense of tower crews (presumably due to insurance rate increases) and the changes occurring at WEAU (it is again for sale) it might be advisable to start looking in earnest for another site. UXP's report prompted a lengthy discussion of the options he had outlined, as well as others. There was concern among some members that the loose coax might cause further damage in addition to the roof damage already done. A motion to remove our equipment from the WEAU tower was not acted upon as the second was withdrawn when a consensus was reached that we need more information before acting. On the matter of the damage to the roof, the following motion was passed: "Resolved: that the club pay for the repair of damage caused by our equipment as a result of the recent windstorm." A Repeater Site Committee was appointed to consider the advisability of removing the 31/91 repeater from its present site and what other sites might be

available. This committee will consist of Don K9UXP, Ron WA9PAM, Bill WB9ULA and Bob W9BAR. PAM will make inquiries on a potential site he knows of and LJK agreed to inquire about a site he believes might be available.

NEW BUSINESS

Ron WA9PAM gave notice that he will not be able to chair the Hamfest Committee next year due to a very heavy schedule.

Phil KA9LJK (speaking from the floor) reminded the chair that the by-laws call for the appointment of the Nominating Committee at the October meeting. Carl W9NW, Andy KA9HWN, and Ron KE9BM volunteered and were duly appointed as Nominating Committee. The committee will present their slate at the November meeting at which time nominations will also be taken from the floor. Voting will be at the December Meeting/Christmas Party.

LJK suggested we begin making arrangements for a hall for the Christmas Party. Darold N9FLK will contact Harry W9FYI and ask him to see about reserving the hall we have used in the past.

ANNOUNCEMENTS

The Sacred Heart station will be operating Thursday afternoon October 22 at 3:30. There will be a hamfest in Minneapolis October 31. A flyer for the November 15 Rockford Hamfest may be seen after the meeting as well as a tube price list from Transelectronics, Inc. Two fine poems on the subject of ham radio by WB9OHN may be read after the meeting or by contacting FLK.

The meeting was adjourned at 8:45 p.m.

Respectfully submitted:

Robin NI9R -- Sec. EARC

ADVERTISING in Badger State Smoke Signals is a true bargain! For details, contact Advertising Manager Harry Westlund, K9EHJ. His address is on page 2.

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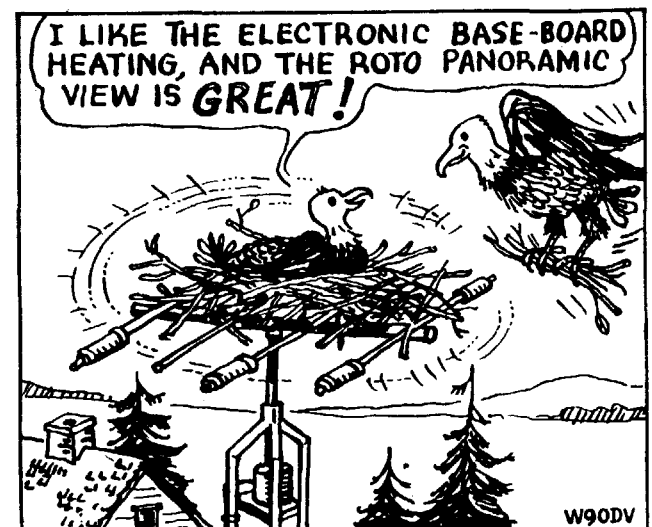
EARTHQUAKE ROCKS LA, AMATEURS ASSIST

The first report of the earthquake which rocked southern California came into (ARRL) HQ just a few minutes after the initial shock. A W1AW bulletin alerting amateurs was immediately issued, and the three NTS Staff Chairmen were notified of a possible swell of quake related health and welfare inquiries.

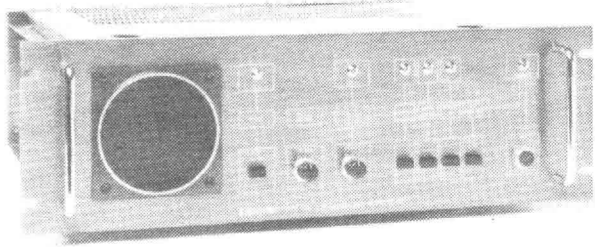
Los Angeles Section Manager Phineas Icenbice, W6BF, reported later that afternoon that the emergency was being handled by the various public safety agencies, with communications assistance from onsite RACES/ARES groups. Telephone service appears to have been restored to most areas shortly after the quake.

(From The ARRL Letter)

A Modern QTH



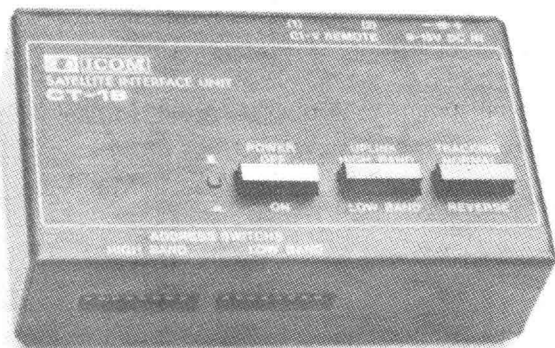
New Products



220 MHz REPEATER

To complement the growing activity on 220 MHz, ICOM now has a 220 MHz repeater available, the RP-2210. With frequency coverage from 216 - 236 MHz, selectable CTCSS/Carrier squelch operating system, and 25 watts RF output power, DTMF control and continuous duty cycle. Suggested list price \$1499.00.

NEW ICOM ACCESSORIES

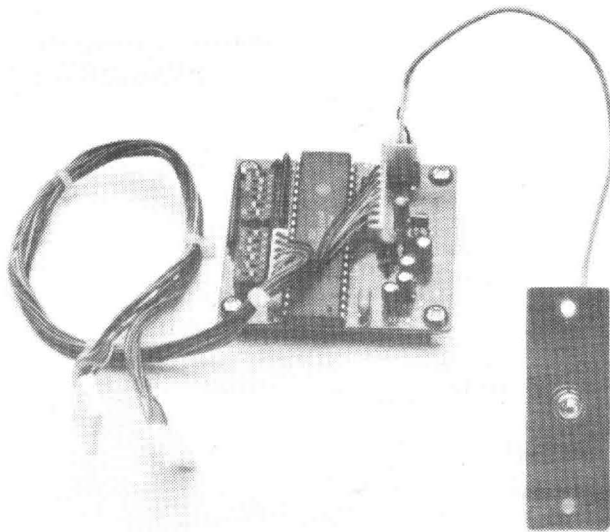


SATELLITE INTERFACE UNIT

Instant satellite communications are now possible with ICOM's CT-16 Satellite Interface Unit when used with an ICOM CI-V System Transceiver. The CT-16 features an uplink switch to control the downlink and uplink transceivers, and a switch to select either normal or reverse tracking. The CT-16 may also be used in coordination with the UX-14 CI-IV/CI-5 converter. Suggested list price is \$97.50.

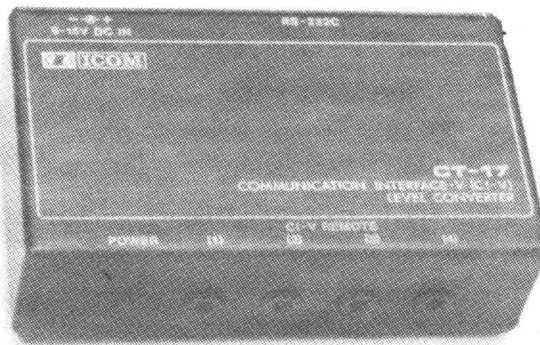
THOSE OLDIES BUT GOODIES

Back issues of **Badger State Smoke Signals**, if available, can be ordered for \$1.00 per copy postpaid. Send check or money order to Jim Decker, P.O. Box 337, Baraboo WI 53913-0337. Please allow at least 3 weeks for delivery.



CI-IV/CI-V CONVERTER

The UX-14 Converter enables you to adapt a CI-IV system to a CI-V system. This allows the transceiver to be computer controlled, or for satellite operations using the CT-16 Satellite Interface Unit. The following radios are equipped with a CI-IV port and can be converted for CI-V use with the UX-14: IC-R71A, IC-271A, IC-271H, IC-471A, IC-471H, IC-751, IC-751A and IC-1271A. Suggested list price \$72.50.



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Radio operations can now be externally controlled by a RS-232C I/O port equipped personal computer by using ICOM's CT-17 Communication Interface-V (CI-V) Level Converter. Up to four ICOM CI-V radios can be used for controlling frequency, mode and memory information. Suggested list price \$97.50.

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This mini-sized speaker mike is big on audio.... The HM-46 for top panel connections on the IC-2AT, IC-2OAT, IC-3AT, IC-03AT, IC-4AT and IC-04AT, and the HM-46L right angle connection speaker mike for the Micro series. Both the HM-46 and HM-46L have a swivel clip on the back to easily clip on your lapel or collar. Suggested list price \$29.99.

The above information from ICOM news release. For more information, write ICOM, 2380 116 Ave. N.E., Bellevue WA 98009.



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You can remotely operate your HF transceiver using your cordless telephone with the MFJ-630 cordless telephone interface. Plug the base unit of your cordless phone and the microphone input and speaker output of your transceiver into the interface. Then, with your cordless phone you can operate your rig using VOX anywhere within range of your cordless phone. The MFJ-630 cordless telephone interface is priced at \$39.95 plus \$4.00 shipping and handling. If not satisfied with the MFJ-630, it may be returned within 30 days for a full refund minus shipping and handling. It is warranted unconditionally for one year. For more information, contact MFJ Enterprises, Inc., P.O. Box 494, Mississippi State MS 39762, or call 800-647-1800.

- MFJ News Release

DID YOU KNOW?

The world's first radio ad (complete amateur station) appeared in the January and June 1906 issues of *Scientific American*?

- K9UTQ



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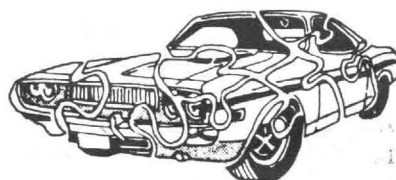
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BEN	YES	3985	1810Z	1200	KA9RII
WSBN	YES	3985	2330Z	1730	WB9ESM
WNN	YES	3723	0000Z	1800	N9DGL
WSSN	YES	3645	0030Z	1830	N9BDL
WIN-E	YES	3662	0100Z	1900	WB9ICH
WIN-L	YES	3662	0400Z	2200	KC9CJ
NWTN	YES	34/94	0030Z	1830	W9ZZM
WCWTN	YES	31/91	0030Z	1830	NK9L
GR.BAY	NO	72/12	0245Z	2045	WB9NRK
			THU	WED	

RACES	NO	3993.5	1815Z	1215	WC9AAG
			USB	TUE. & THUR.	
RACES	NO	3993.5	1400Z	0800	WA9OAY
			LSB	SUN.	

Section Manager's notes

Richard R. Regent, K9GDF
5003 South 26th Street
Milwaukee WI 53221

Thanks to KC9CJ for being Net Manager of Wisconsin Intrastate Net Late. Welcome to W9NGP as new NM of WIN/L.

KA9RII, Lisa, was awarded plaque from Wisconsin Nets Association for being chosen as the top traffic handler of the year. Lisa says she has a three foot high pile of written messages she has handled as proof of her efforts.

New officers WNA: Chairman. N9GJI; Sec. N9DGL; Treas. NC9G; and Training Officer K9UTQ; contact them with your questions and suggestions for traffic handling, RTTY or packet net information, and net procedures.

New officers QCWA Wisconsin Chapter 55 are Chairman: W9FZC; Vice Chairman W9IEM; Sec. W9YCV; Treas. K9GDF; Directors W9VQD, W9VOW and N9DNM.

Congratulations to W9GIL and W9HE for earning their 50-year ARRL Member Awards.

Awards Manager KY9P announces awards to KD9IV VUCC 2-meters; KA9SOW 125 grids 6-meters; and K9HEK 175 grids 6-meters.

Special thanks to W9UCL and N9GJI for helping deliver no-outlet Wisconsin traffic by telephone at their own expense.

December 5th, exams in Stevens Point, catch N9JW.

December 9th, Wednesday, 6 p.m., Milwaukee Radio Amateur Club's annual Christmas Dinner Party 7 p.m. at Elm Grove Legion Post Hall, 1195 Legion Drive, with plenty of fun and door prizes, s.a.s.e. for reservations to W9SNK.

December 12th, Milwaukee Metro Area Testing will hold exams at Wauwatosa East High School, info W9SNK.

Badger Examiners December 19th exam, 1 p.m. at St. Nicholas Parish in Milwaukee, reservation with KB9G.

KC9CJ and K9UTQ are leaders in scouting.

WISCONSIN INTRASTATE NET - EARLY (WIN/E)

Larry Guthu, WB9ICH
Net Manager
706 West Jennings
New London WI 54961

Hi Gang!

Boy, how the time flies; here it is, October already, and I am still looking for summer.

The net has been running smoothly and no major problems, so there is really not much to say. I would like to mention that we are still in need of net control stations for alternates or to take a full time slot on Friday nights. We could also use a few more people to help out on 9th Region. If you are interested, just drop me a line or send me a message and we will get you up and running.

As for check-ins and traffic, we are holding a steady trend and I am sure we will see a slight rise as winter sets itself in a little more.

We have had a few new calls that have shown up over the past two months, those being W9NK, KA9USV, N9FVN, and even our STM K9UTQ has been getting more active with us again. I hope that they will all stay with us and encourage more people to come on down and see what we are all about.

Our top check-ins for the past 3 months are as follows:

1. N9BDL 85
2. W9NGP 80
3. W9YCV 79
4. W9CBE 73
5. WB9ICH 48
6. K9BED 44
7. W9OND 34

As you can see, there are only 7, whereas usually there are 10, but these were the only ones to qualify for the 30 check-ins out of the 90 day period. I hope that more people will help to fill the sheet, so that I don't have enough room to put them all on.

So, I guess there is not much else to say except that I hope you all have a nice fall season and a happy Halloween, and let's remember to keep that WINning feeling flying high.

Best 73, Larry, WB9ICH

GLASS ARM REPORT (Wisconsin Slow Speed Net)

Lee G. Andreas, N9BDL
Net Manager
Route 1, 7600 Highway D East
Lake Tomahawk WI 54539

The season for traffic handling is here again, or at least I hope so. Summer is now a memory of sweaty hours in the shack and 20 over QRN. The band is quieting down and I'm beginning to miss that old Apache transmitter with its multitude of filaments to keep me warm.

Even the fall meeting and picnic of the Wisconsin Nets Association is past. For those of those unfortunates who were unable to attend, here is a synopsis of the festivities. The weather was great, no rain to speak of and comfortable temperatures. Well the rain didn't soak us like the June meeting. The weather is not what makes a meeting, picnic, or other gathering. It is the people that count. It is always great to see familiar faces and meet, for the first

time, the voices and keys on the other end of the nets. There were some of each again this year.

The meeting highlights were the re-election of Bruce, N9DGL, and Art, NC9G, as secretary and treasurer, respectively. The reign of Larry, WB9ICH, as Chairman ended and a new call, but old face, was elected Chairman of the W.N.A. for the next two years. This is not to say that the new Chairman has an old face, just that he held that position before. In fact, Bob, N9GJI, was the man in charge at the first W.N.A. meeting that I attended. Back in those days, he was known as KA9CPA. Congratulations, Bob, and all of us know that the organization is in capable hands. Larry too was an "All Stater" - (good hands - Oh Brother!)

The Section Traffic Manager, K9UTQ, was re-elected as Traffic Training Officer. Gene will continue his fine work for another year. After the formal meeting, awards were given out. Jim, WB9YPY, was the Traffic Handler of the Year and received an endorsement for his plaque. This years' winner of the plaque was Lisa, KA9RII. The award took her by surprise and for the first time in many years she was speechless. Congratulations to the Traffic Handlers and the elected officers.

Drawings were held for door prizes and some good old eye-ball QSOs followed. I was lucky and won a pump thermos type bottle. It works great for my tea while I'm out on the job. Next fall's meeting and picnic will be held in one of the Wood County parks near Wisconsin Rapids. Hope to see you there.

The figures for WSSN for the past three months are nothing to brag about but they could be worse without the help of the faithful. The traffic figures are:

QNI	QTC	QSP	QTR
482	88	67	1302

The most faithful of the net members for the past quarter were: Ed, W9NGP, with 72 checkins, followed by Ralph, K9BED, with 64, and Paul, N9FVN, with 57. Thank you three for your help. It is appreciated.

A pleasant surprise has been Hank, N9BZZ, from Indiana. He has been quite regular for the past month. He is about half way to earning an associate net certificate.

For all of the present certificate holders of the net, I will be getting out renewal stickers during the month of December. Also, NCS stickers will be sent out in December for those stations that qualify. More on that in the next report. And speaking of the next report, I'll see you again next year in these pages. So until then, QNI a net and hopefully the WSSN.

73, Lee, N9BDL, NM

UNIVERSAL TRAFFIC QUERIES

Gene Santoski K9UTQ
Section Traffic Mgr
Wisconsin Section-ARRL

Last month, as you recall, we discussed the various types of nets that make up the National Traffic System.

OK. BUT JUST HOW DOES TRAFFIC GET TO ITS DESTINATION ONCE PUT INTO THE NTS CIRCUITS?

I will attempt to answer this common ques-
(continued on page 15)



THE WISCONSIN PACKETEER

Wisconsin Amateur Packet Radio Association (WAPR)
P.O. Box 436 Cedarburg, Wisconsin 53012-0436

RIVERLAN PACKET CONFERENCE DRAWS PARTICIPANTS FROM WISCONSIN AND MINNESOTA

The leaves are past their peak and it's a rainy day...so what to do? A lot of folks attended the 1987 Riverlan Fall Packet Conference held in Onalaska, WI on Saturday October 17. The conference was held at the Nob Hill restaurant sponsored by the Riverlan group with attenders from both Wisconsin and Minnesota. From Minnesota, Gary, WD0HEB; Lynn, WB0U; and Bob, K0SIR attended from Rochester. Wisconsin attenders included John, WA9SOU; Roy, WA9KEC; Dave, WA9POV; Dan, WB9TYT and his XYL. Other hams attending the conference were from the Riverlan area of La Crosse, WI and Winona, MN.

One of the primary tasks of this meeting was to decide on whether to form the Riverlan group into a more formal organization. This issue was debated from the perspective of pros and cons of organizations per se. The general outcome of the discussion resulted in a decision to organize into a club, but keeping the structure as informal as possible. Folks seem to like the informality of the past conferences and would like to retain that ingredient in an organization. The discussion emphasized the need for some "fund raising" to enable additional digipeater and other packet projects. Presented in the discussion were the perspectives of hams currently involved in the Minnesota Southlan organization and those of the group from southern and southeastern Wisconsin. A decision was made to charge a minimal membership fee of \$5.00 per year, but that members should expect additional (voluntary) assessments based on the projects the club will undertake.

Of immediate concern was the need for a digipeater on 145.09, the local area packet frequency. A transceiver is available for the project, but needed are a TNC, power supply and antenna...as well as a site for the digipeater. The need for such a digipeater is to be able to better link Winona and La Crosse area hams, as well as those in surrounding areas such as Sparta and Viroqua in Wisconsin. A site has been suggested and testing will be going on nearly immediately to determine if it is the proper location. Funding for the project will be requested from LAN hams in the amount of a \$13.00 donation to the Riverlan Club c/o Kent Helman W9LZQ, 1063 Fairfield St. Onalaska, WI 54650.

The afternoon session was complete with demonstrations and discussions of special projects. Duane, W9HWQ demonstrated the Kantronics All Mode TNC along with its PBBS feature which allows for message storage and retrieval. Erik, WB0NIU discussed his "all-in-one-box" portable/mobile packet station which will be extremely useful in special events and emergency operations. Kent, W9LZQ discussed the database retrieval system being used on the W9LZQ-1 BBS in

conjunction with the WA7MBL Server function. Van, WA9FIO demonstrated an easy alternative to the "book" method of tuning a TNC-2 (we're going to ask you to write it up, Van).

The various plans for backbone networks were described by the participants who are considering alternatives or have implemented systems. The southeastern hams have started using a 430 Mhz backbone system at 1200 baud using Net/Rom. Consideration is being given to a high speed link between LSE and NFR. Most of this is invisible to the user who hooks into a system on 145.01 or a LAN frequency, but it becomes important when considering the amount of traffic on the 145.01 two meter frequency and the difficulty encountered in sharing a digipeater which is hearing signals constantly on 145.01.

To zip code or not to zip code NTS traffic...that is the question, or... to use area codes? Discussion at the conference pointed out the problems experienced in handling NTS traffic. The consensus was that zip code forwarding would be the most appropriate route to go. Some BBS's are already set to handle traffic, both NTS messages and forwarding messages using the zip code method. BBS's in Michigan have adopted this method. From the discussion at the conference, it would appear that BBS's in Wisconsin and Minnesota will soon follow suit. During the transition period, most BBS's will be set up to handle NTS messages using both the state designator method and the zip code method.

Van, WA9FIO discussed recent problems and changes to the LSE digipeater which serves as a link between Wisconsin and Minnesota. The system was down for a short period of time after lightning visited the site and transceivers had to be changed and retuned. All is well now with a solid connection to the Rochester digipeater and a 90 percent connection to North Freedom. Ray's station, AA9M is still being utilized as a digipeater to assure near 100 percent connects to NFR.

Due to time limitations, the last agenda item...NET/ROM status and concerns was discussed at the restaurant "watering hole". This reporter, unfortunately missed out on that discussion. The next Riverlan Packet Conference will be held at Winona MN in early-mid April of next year.

-W9LZQ-

John - WA9SOU reports that he has disabled the digipeat function on the WA9SOU-2 wide area Net/Rom node near Baraboo in order to reduce unnecessary transmissions such as state-wide beacons. Node functions have been operational for about 3 months allowing everyone to become familiar with how to use it. You may see the WA9SOU-2 identifier from time to time, however, only connects to the node NFR will be honored.

Scott - NE9U reports that the Stevens Point digipeater, located on the Sentry Insurance

building was causing desensing to the amateur two meter voice repeater located on the same tower and has now been moved to a 100 foot level with a new G7 antenna. The digi - STE, is running 25 watts. Scott is confident on obtaining a 160 foot level site in the near future which should provide the most reliable path north from NFR to N9CLE-1 and direct to Green Bay's WA9SXN or La Crosse's LSE.

TAPR Ver. 1.1.4 hang update

The hang-up-without-transmitting bug is the one we (KJ4HP and myself) were referring to at the Evansville Hamfest this year; it DOES happen on 1.1.4; hence the recommendation we made that 1.1.4 NOT be used for digis. I've sent several messages to Howie, N2WX, author of the software about this bug, and he's got a test version which has a new counter, TXTMO which counts the number of times the new code corrects the hang-up condition with an internal time-out timer...

There was a new bug in the test version I was smoke-testing for Howie, (a bug in DWAIT), which I understand he has corrected; I also understand that the code is due to be released in a relatively short time as 1.1.5. Rev 1.1.5 will also include the BBSMSG command which will inhibit connect request messages during connects (so they won't contaminate BBS messages), and which will insert an extra carriage return before disconnect messages, to guarantee the BBS software sees them.

Anyway, the bug noticed by WB9TPG *IS* a valid bug, and is due to be corrected shortly by version 1.1.5..

73's, Paul / K9P5 / Owensburg, IN

Binary C-64/C-128 Transfers

A new 'basic' terminal program has been added to the C-64 subdirectory at W9LZQ- (La Crosse) which is designed to make station to station binary file transfers possible via packet radio. There are 5 files associated with this program, but you will probably only need 2. First download the documentation file to see which one of the others you will need for your equipment. D C-64/PACKTERM.DOC. Please let me know how the program works out for you.

73, Kent W9LZQ

(If you cannot find these programs on your local area network (LAN) PBBS, don't hesitate to ask Kent to forward the programs to your local system.)

Want a crystal packet rig? I have a Regency single channel 20 watt fm mobile all crystallized up and operating on 145.01 mhz. Anyone want it? Give me a blast or leave a message on the W9LZQ-1 PBBS in La Crosse. It works great (I'm using it right now).

Dan, AI9D

DX!!!

Well, we finally got (most) of the HF antennas up at Radio Free Suamico, thanks to a lot of help from Tim, WA9SRW, who did the tower work, and from Tom, KW9Q, and Randy, W9ZR, who helped out on the ground. The setup is a 4 element 20 meter beam at 160 feet, a 3 element 10-15 meter duoband beam at 163 feet, and a 2 element 40 meter beam at 173 feet. We still have wire antennas for 80 and 160 meters to go, as well as another 10 meter antenna that'll be mounted on the side of the tower. We also need to run up the feed-line for the 2 meter antenna, so we can get the BBS up to full range again.

I'm getting VERY seriously interested in working some DX, so I will welcome any DX reports anyone wants to post here. As I suggested last year, the best way to do that is to address the message to "DX" and indicate the callsign, frequency and time in the title to the message. That way, all the important stuff is visible at a glance, and the body of the message can contain the additional details. To see all the DX bulletins, all you have to do is "L> DX" from the prompt.

I'm also hoping to do some multi-op contesting from here this winter. If you have some contest experience and want to join the crew, let me know. We're looking for a few good ops! (to coin a phrase; contact the Senator Biden campaign for details). --John - AG9V

The Packet Radio ZIP vs Area Code Routing

THE AMERICAN RADIO LEAGUE, INC.

September 10, 1987

From: Luck Hurder KY1T, Deputy Manager, Field Services Department, ARRL HQ

To: WB9MDS, KD9ER, WB8BGY, WB8KQC, WA1LRL, WB8MTD, W4OYI, WB8SIW, W1CE, AD8I, NC9W, W2JUP, and other interested parties

Re: The Packet Radio ZIP vs. area code routing controversy.

I am in receipt of letters from many of you regarding the misconception that ARRL HQ is somehow dictating which form of routing will be used. The purpose of this letter is to put that notion to bed right away, and to state the facts in the matter.

ARRL has made no recommendations whatsoever regarding the use of ZIP codes or telephone area codes for NTS message routing. As you can appreciate, this is an experimental area that we would prefer to have developed within the packet/NTS message-forwarding community.

For those who may be relatively new to this controversy, the ZIP/area code subject has been hotly debated since about 1981. Long, some of them scholarly, papers have been exchanged among Digital Committee members and others.

The problem - if in fact there is one - seems to have stemmed from the fact the Hudson Division packet conference recommended the use of area codes. Their recommendations are just exactly that - only recommendations, and are not to be considered policy.

ARRL HQ has published these recommendations - and certainly others as well - in Field Forum, Section Leader, and other League publications solely as a means of providing a widespread forum for various points of view. We will continue this practice as an effective means of sharing these viewpoints with one and all.

Those considering packet addressing need to remember that the ZIP code scheme, per se, is

applicable only in the United States. Other countries, such as Canada and the United Kingdom, have alphanumeric postal codes. Yet other countries have no postal codes. That gives us some address system design considerations for the future. But for the moment, it looks like ZIP code addressing/routing is a practical method for the US and Canada, which takes of the lion's share of the present traffic problem.

Once again, I hope that this puts to rest the idea that we at ARRL HQ are doing anything to promote the use of either method. The final outcome will hopefully depend on the benefits of the scheme that best serves all users of the packet network, worldwide.

No Upgrade At DCA Nodes

As Sysop of the K3AF/DCA nodes, I'd like to express some reservations and concerns about Net/Rom. The DCA nodes currently operate on 145.07 and 221.01 with antennas installed and equipment ready for additional nodes on 441.xx and 51.xx. The site is well engineered for VHF and the service area of the nodes is 75 miles plus. My comments are:

1. Net/Rom has gone through four versions in the last few months, 1.0, 1.1, 1.2 and now 1.3. In a four node installation, each upgrade would cost \$140 and I'm sure there will be more than a few upgrades in the future.

2. The series of upgrades have not solved the problem of the obsolescence count not incrementing with each successful use.

3. More seriously, the upgrades have not solved the problem of "Trivial" or erroneous routes. In a four node installation, the extra nodes connected on RS-232 would generate multiple erroneous routes for each valid route.

4. Recently, I found that the policy of the manufacturer is not to sell additional Net/Roms for an existing Net/Rom installation. The purchaser must buy a set complete with documentation.

In view of these four points and though I consider Net/Rom a welcome innovation, the system is much less than perfected and it looks to me like a bottomless pit for money as each improvement constitutes a costly upgrade. So, for the time being, the DCA nodes will stay with Version 1.1 of Net/Rom. In the belief that Packet will be better served with code in the public domain, we will encourage the stampede to another, similar system, such as RATS COSI switch when beta testing is completed in the next few months.

Fraternally, Dick - K3AKK @ W3IWI

RFI and Computers

I had a real problem with RFI into my IBM computer keyboard. Any time I operated RTTY or AMTOR (yes, there are still other modes besides packet!), RF would be coupled into the keyboard whenever I typed while transmitting. This was especially bad on 80 and 40 meters and would clobber the computer with garbage (and sometimes even clobber the TNC settings). Needless to say, this was not helpful for efficient communications. I am pleased to say that one of the new MFJ Clear Channel Filters (MFJ-701), with about 5 turns of the keyboard cable wrapped around it, completely solved the problem. No more RF problems whatsoever on any band. I put the toroid at the end of the cable at the plug into the computer. Hope this info helps any of you having similar problems. --73...Bob...KD5SB

WNA - K9UTQ continued from page 13

tion in as simple terms as possible in hopes that you will have a better understanding of just how traffic flows from one point to another.

A good approach to this is to compare it to the way a traveller starts out in one city and ends up at another by using air routes. Let's say Millie Amp is going to leave the small town of Kellner, Wisconsin and travel to Madera, California to visit her sister. A message will also be sent from Kellner, Wisconsin to Madera, California. Millie will no doubt change her means of travel along the way, just as the message will have to utilize various circuits in its travels through the NTS.

Millie Amp leaves Kellner and travels by car to Mosinee, Wisconsin which has a large Regional Airport. By comparison, the message would leave from its point of origin (Kellner) and travel to the nearest net which could be either a LOCAL NET on 2 meters, or, a WISCONSIN SECTION NET on 75 Meters. Either way, both Millie and the message got to the first major stepping stone on the way to California.

Now, Millie will board a small commuter airline which will take her to a larger airline at, say, Chicago's O'Hare International Airport. The message, by comparison, will now travel from the WISCONSIN SECTION NET to the NINTH REGION NET by way of a liaison station (like the commuter airline that took Millie to Chicago).

Then, Millie Amp boards a large jetliner which will take her non-stop to Los Angeles International Airport. The message, on the other hand, will travel from the NINTH REGION NET to the CENTRAL AREA net via a liaison station. Then, a station from the CENTRAL AREA net will join with other AREA REPS on the TRANSCONTINENTAL CORPS NET (TCC), where a station from the PACIFIC AREA NET will pick up the traffic and take it to the SIXTH REGION NET.

Millie, upon arriving in L.A., will now board another small commuter airline to take her to the nearest regional airport, say, in Fresno. The message will be picked up from the SIXTH REGION NET by a rep from the SACRAMENTO VALLEY SECTION NET. Now, Millie, will board a bus to take her to nearby Madera where she will be greeted by her sister. The message, by comparison, could end up on a LOCAL 2 Meter traffic net where it will be picked up by a station in Madera who will phone the message to the addressee.

A couple of items that reached us too late for inclusion in the regular meetings column.

The Madison Area Repeater Association (MARA) annual Christmas party will be held at the Heritage House in Madison on Monday November 30, 1987. This is a change from the date that had been originally scheduled. Contact Clyde, W9HSY, or MARA, P.O. Box 3403, Madison, WI 53716.

The upcoming meeting times for the Tri-County Amateur Radio Club are:

Sunday, November 15, 1987 7:00 p.m.

Sunday December 1, 1987

Christmas Dinner and meeting at Fairview in Jefferson.

Sunday January 9, 1988 7:00 p.m.

Meetings are held the second Sunday of each month at the Trinity Lutheran Church, 314 Barrie, Fort Atkinson, WI. Winter month meetings are occasionally changed to 3:00 p.m.

Unusual Trivia Quiz



By Gene Santoski, K9UTQ
1220 18th Street South
Wisconsin Rapids WI 54494

QUIZ NO. 10 IN A SERIES OF 12

1. How many examiners are required for the Novice license?
2. What is an FET?
3. What kind of match is normally used to match coax to the driven element of a parasitic array?
4. What major manufacturer of Amateur Radio equipment is located in Washington state?
5. What is local (CDST) time when UTC time is 1845?
6. What is the date of the next MARA Swapfest?
7. What is the prefix for Nigeria?
8. Who is the ARRL Bulletin Manager for Wisconsin?

9. In what year was the DXCC Award started?
10. In what year did Hiram Percy Maxim die?

Please submit your answers to K9UTQ. After two more quizzes have been published, a prize will be awarded to whomever has submitted the most correct answers. October quiz answers are on page 7.

Remember your Ham Radio friends this Christmas with a gift subscription to BSSS!



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